

Blake Truong

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EDUCATION

Bachelor of Science, Computer Engineering GPA: 3.38

Expected Graduation: June 2024

University of Washington – Bothell, WA

Courses: Fundamentals of Electrical Engineering, Circuit Theory, Digital Circuits & Systems, Devices & Circuits I, Java I & II, Calculus I & II & III & Multivariable, C++ Algorithms & Data structures, Continuous Time Linear System, Devices and Circuits

COMPUTATIONAL SKILLS

- *Programing Languages:* Verilog, Java, C/C++, HTML, CSS, JavaScript, MATLAB, Unix/Linux, Shell script
- *Software Tools:* LTspice, MATLAB, Quartus Prime, GitHub, IntelliJ, Visual Studio Code
- *Instruments:* Oscilloscope, Digital Multimeter, Soldering Iron
- *Hardware:* Altera DE-10 lite, Arduino

PROJECTS

State Machine Module – University of Washington

Mar 2022 – June 2022

Built a state machine module utilizing Verilog and Quartus Prime, that counts time: seconds, minutes, hours, days, months, and years to display on a DE10-Lite FPGA Board. Adjusted clock to run both manually and automatically. Optimized code to handle time roll overs, varying days and months, and exceptions to leap years.

Database Project – University of Washington

Sept 2022 – Dec 2022

Operated with a team using GitHub to build a simple enrollment database in C++. That enrolls students, courses, and university into an enrollment system. Utilizing data structure, sorting algorithms, and discrete mathematics concepts. Optimized code through induction and logical proofs. Tested and debugged for optimal coding using Visual Studio Code.

Tetris/Snake Game – Bellevue College

Sept 2021 – Dec 2021

Individual personal project to code the Tetris and Snake game in Java, using JavaFX. learned the basics of GUI and utilizing pre-existing library to build code. Utilized basic sorting algorithms and data structures. Tested and debugged for optimal coding in IntelliJ

EXPERIENCES

Electrical Engineering Lab Technician – University of Washington

Present

- Assists students with Electrical Engineering concepts and labs
- Developed a stronger foundation on Electrical Engineering concepts

Orientation Student Assistant – University of Washington

March 2022 - September 2022

- Coordinated with a team to assist students transfer to UW
- Performed/Developed excellent communication

Mathnasium – Kirkland, WA

July 2021 – January 2022

- Tutored Math from Pre-Kindergarten – Calculus II
- Developed stronger foundation on mathematics.